

NOVEL POLYMERIZATION PROCESS USING ZERO-VALENT NICKEL COMPLEX

Patent number: JP2008213
Publication date: 1990-01-11
Inventor: YAMAMOTO RYUICHI
Applicant: YAMAMOTO RYUICHI
Classification:
- international: C08G61/10
- european:
Application number: JP19880159635 19880628
Priority number(s): JP19880159635 19880628

Abstract of JP2008213

PURPOSE:To obtain a polyarylene in high efficiency by dehalogenating an organic compound having ≥ 2 halogen atoms using a zero-valent nickel complex as a dehalogenation agent and polymerizing the dehalogenated product. **CONSTITUTION:**A polyarylene is synthesized by reacting (A) a zero-valent nickel complex [e.g., tetrakis(triphenylphosphine)nickel produced by adding nickel chloride, triphenylphosphine and zinc powder to N,N-dimethylformamide and stirring the mixture] with (B) an organic compound having ≥ 2 halogen atoms in the molecule (preferably brominated organic compound or iodinated organic compound such as p-dibromobenzene and 2,5-diiodothiophene), e.g., by dehalogenating and polymerizing the component B according to the reaction formula I and formula II [Ni(O)L_n is zero-valent nickel complex wherein L is neutral ligand and n is the number of the ligand].

Data supplied from the **esp@cenet** database - Worldwide